PATENT COOPERATION TREATY



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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

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di	INTERNATI	ONAL PRELIMINA	RY EXAMIN	ATION REPORT
	·	(PCT Article 36	<u>.</u>	
Applicant's or ager PH-1	nt's file reference 941-PCT	FOR FURTHER ACTION See Notification of Transmittal of Interr Preliminary Examination Report (Form PCT/IPE.		Examination Report (Form PCT/IPEA/416
International application No. PCT/JP2003/014149		International filing date (06 November 2003		Priority date (day/month/year) 06 November 2002 (06.11.2002)
International Paten A01K 67	t Classification (IPC) or r /027, C12N 5/00	national classification and l	PC	
Applicant	CENTRAL	INSTITUTE FOR EX	KPERIMENTA	L ANIMALS
2. This REP Than 70 This report I [III [IV [nended and are the basis in the part of the sea annexes consist of a cort contains indications record Priority Non-establishment Lack of unity of its Reasoned statement citations and explanations and explanations. Certain document Certain defects in	f 3 sheets, in the sheets, in the sheets of this report and/or sheets to the Administrative Instruction total of sheets total of sheets total of sheets to the following items to the following items to the sheets of opinion with regard to the sheets of th	novelty, inventive regard to novelty, tatement	tion, claims and/or drawings which have be cations made before this Authority (see R. step and industrial applicability inventive step or industrial applicability;
Date of submiss	sion of the demand		Date of completion	
06 November 2003 (0		6.11.2003)	:	14 April 2004 (14.04.2004)
Name and mail	ing address of the IPEA/	rP	Authorized office	er
Transcara man				

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/JP2003/014149

I. Basis	of the report	_
1. With	regard to the elements of the international application:*	
	the international application as originally filed	
	the description:	
ŀ	pages, as originally filed	1
	pages, as originally fried , filed with the demand	
	pages, filed with the letter of	•
	the claims:	-
	pages	
	pages, as originally filed, as amended (together with any statement under Article 19	
	pages, filed with the demand	
	pages, filed with the letter of, med with the definance	ı
	the drawings:	-
	, as originally filed	
	, filed with the demand	l,
П.	pages, filed with the letter of	-
יען	the sequence listing part of the description:	
	pages, as originally filed	1
	filed with the demand	
	, filed with the letter of	
2. With the in These	regard to the language, all the elements marked above were available or furnished to this Authority in the language in which ternational application was filed, unless otherwise indicated under this item. elements were available or furnished to this Authority in the following language which is: the language of a translation furnished for the purposes of international search (under Rule 23.1(b)). the language of publication of the international application (under Rule 48.3(b)). the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3)	
3 With	0.000).	
prelir	regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international inary examination was carried out on the basis of the sequence listing: contained in the international application in written form.	I
図	filed together with the international application in computer readable form.	
Ħ	furnished subsequently to this Authority in written form.	1
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Ħ	furnished subsequently to this Authority in computer readable form.	1
	The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.	1
\bowtie	The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.	
4. 🔲	The amendments have resulted in the cancellation of:	ı
	the description, pages	١
	the claims, Nos.	1
	the drawings, sheets/fig	ļ
s. 🔲	This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**	
		1
and 70	•	
* Any re	placement sheet containing such amendments must be referred to under item 1 and annexed to this report.	1
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/JP03/14149

V. Reasoned statement under Artic citations and explanations suppo		velty, inventive step or industrial applicability;	
1. Statement			
Novelty (N)	Claims	2, 5, 8	YES
	Claims	1, 3, 4, 6, 7, 9	NO
Inventive step (IS)	Claims		YES
	Claims	1-9	NO
Industrial applicability (IA)	Claims	1-9	YES
	Claims		NO

2. Citations and explanations

Documents:

Document 1: WO, 02-43477, A1 (Central Institute for Experimental Animals), 6 June, 2002 (06.06.02) Document 2: "The Development of a Model for the Homing of Multiple Myeloma Cells to Human Bone Marrow," (M. Urashima, et al.), Blood, 1997, Vol. 90, No. 2, pages 754-765

Explanation:

Document 1 describes that (1) human T cell lymphoma cell LM-2-JCK was transplanted into a NOG (Nod/Shi-scid, IL-2Rγ KO) mouse, and (2) this model animal can be used as a method for screening the remedies for human lymphomas.

So, the subject matters of claims 1, 3, 4, 6, 7 and 9 do not appear to be novel.

Document 2 describes that human multiple myeloma cells such as U266 were transplanted into SCID mice indirectly through a spicule of a human fetus, to make model animals. Document 1 describes that (1) various cells can be efficiently transplanted into NOG mice, and (2) a human T cell lymphoma cell as a human hematopoietic organ tumor cell was successfully transplanted. So, a person skilled in the art could have easily selected the U266 described in document 2 as a human hematopoietic organ tumor cell to be transplanted. Furthermore, a person skilled in the art could have predicted the effect of this constitution from document 1.

So, the subject matters of claims 2, 5 and 8 do not appear to involve an inventive step.

The subject matters of claims 1-9 appear to be industrially applicable.